

1 Claims

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3 1. A composition containing at least one nucleic acid
4 sequence and/or at least one amino acid sequence, or
5 a synthetically prepared analogue thereof or a
6 substantially homologous sequence, wherein the
7 composition is derived from or based upon the
8 sequence of infectious salmon anaemia virus and
9 wherein the at least one of said nucleotide and/or
10 amino acid sequences does not cause salmon anaemia
11 and is capable of being used as or to prepare a
12 vaccine to ISAV.

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14 2. The composition of claim 1, wherein the
15 substantially homologous amino acid sequence encodes
16 a peptide which is at least 70% homologous to a
17 surface antigen and is capable of inducing an immune
18 response.

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20 3. The composition of claim 1, wherein the composition
21 comprises at least one amino acid sequence chosen
22 from the group consisting of Sequences ID numbers 2,
23 4, 6, 7, 8 or 10.

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25 4. A composition as claimed in claims 1 to 3 wherein
26 the at least one amino acid sequence comprises at
27 least one fragment of a sequence belonging to the
28 group consisting of Sequence ID no's 2, 4, 6, 7, 8
29 or 10.

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31 5. A composition as claimed in claims 1 to 3 wherein
32 the at least one amino acid sequence is a truncated
33 form of at least one of the amino acid sequences of

1 the group consisting of Sequence ID Numbers 2, 4, 6,
2 7, 8 or 10, which is capable of inducing an immune
3 response.

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5 6. Preferably the substantially homologous nucleotide
6 sequence is at least 60% homologous to a sequence of
7 a part of a surface antigen and the part of the
8 antigen is capable of inducing an immune response.

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10 7. A composition as claimed in claim 1 wherein the
11 nucleotide sequence is chosen from the group
12 consisting of Sequence ID numbers 1, 3, 5 and 9.

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14 8. A composition as claimed in claim 1 or claim 7
15 wherein the or at least one nucleotide sequence
16 contains at least one fragment of a sequence chosen
17 from the group consisting of Sequence ID numbers 1,
18 3, 5 and 9.

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20 9. A composition as claimed in claim 1, claim 7 or
21 claim 8 wherein the at least one sequence is a
22 truncated form of the sequence chosen from the
23 group consisting of Sequence ID Numbers 1, 3, 5 and
24 9.

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26 10. A composition as claimed in any of claims 1, 7, 8
27 or 9, wherein the nucleotide sequence is
28 incorporated in a plasmid.

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30 11. A composition as claimed in any of the previous
31 claims wherein the nucleotide sequence is
32 incorporated in an expression vector.

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1 12. The use of any of Sequence ID numbers 1 to 10, as
2 described in the present invention in the
3 preparation of a vaccine and/or therapeutic
4 medicament for the protection of fish from
5 infection with Infectious Salmon Anaemia virus.
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7 13. A vaccine to protect fish against ISAV wherein the
8 vaccine is based upon or derived from nucleic acid
9 or peptide sequences as set out in any of Sequence
10 ID numbers 1 to 10.
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